What is claimed is:

1. A method for designing tree-structured communication routes, in which plural ingress nodes, a single egress node, plural connection nodes situated between said plural ingress nodes and said single egress node, and plural routes starting from said plural ingress nodes to said single egress node via said plural connection nodes are given, comprising the steps of:

adding a predetermined point to a score of a route successively selected from said plural routes,

successively selecting said routes in reverse order of said scores of said routes,

respectively generating trees from said route with a lowest score and said other routes, and

successively generating other trees from said routes which are unable to generate said trees,

wherein said step of adding said predetermined point to said score of said selected route is carried out whenever either of

(3) a first condition that any node in a selected route does not appear on another route except said egress node, or

(4) a second condition that, when there is a node which appears in both said selected and another routes, said selected route agrees with said another route from said node to said egress node,

is satisfied.

2. The method for designing tree-structured communication route as defined in claim 1, wherein:

said predetermined point to be added to said score of said selected route is +1 point.

3. The method for designing tree-structured communication route as defined in claim 1, wherein:

said route is regarded as a route or a tree.

4. A tree-structure solution derived by mean of a method for designing tree-structured communication routes, in which plural ingress nodes, a single egress node, plural connection nodes situated between said plural ingress nodes and said single egress node, and plural routes starting from said plural ingress nodes to said single egress node via said plural connection nodes are given, comprising the steps of:

adding a predetermined point to a score of a route successively selected from said plural routes,

successively selecting said routes in reverse order of said scores of said routes,

respectively generating trees from said route with a lowest score and said other routes, and

successively generating other trees from said routes which are unable to generate said trees,

wherein said step of adding said predetermined point to said score of said selected route is carried out whenever either of

(1) a first condition that any node in a selected route does not appear on another route except said egress node, or

(2) a second condition that, when there is a node which appears in both said selected and another routes, said selected

route agrees with said another route from said node to said egress node,

is satisfied.

5. A recording medium recording a tree-structure solution derived by means of a method for designing tree-structured communication routes, in which plural ingress nodes, a single egress node, plural connection nodes situated between said plural ingress nodes and said single egress node, and plural routes starting from said plural ingress nodes to said single egress node via said plural connection nodes are given, comprising the steps of:

adding a predetermined point to a score of a route successively selected from said plural routes,

successively selecting said routes in reverse order of said scores of said routes,

respectively generating trees from said route with a lowest score and said other routes, and

successively generating other trees from said routes which are unable to generate said trees,

wherein said step of adding said predetermined point to said score of said selected route is carried out whenever either of

(1) a first condition that any node in a selected route does not appear on another route except said egress node, or

(2) a second condition that, when there is a node which appears in both said selected and another routes, said selected route agrees with said another route from said node to said egress node,

is satisfied,

wherein said tree-structure solution can be read by a computer.